

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 68274 Date: 5/18/05
Art Unit: 1756 Phone Number 30 571-272-1382 Serial Number: 10/734,380
Mail Box and Bldg/Room Location: REM 9C75 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: IMAGING MEMBERS

Inventors (please provide full names): SATCHIDANAND, MISHRA; HOUY YUH; ANTHONY HORGAN; MARKUS SILVESTRI; ROBERT YU; YUWUA TONG; DALE RENFER; KENNY TILAN DINH; GEOFF FOLEY; JACK YANUS; TIMOTHY FULLER
Earliest Priority Filing Date: 12/16/02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

attached
see formula (11) in claim (1)
note meta-substitution of -CH=CH-
to triphenylamine group

SCIENTIFIC REFERENCE BR
Sci & Tech Inf. Cntr

MAY 19 2005

Pat. & T.M. Office

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>22</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>5-25-05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

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L2 FILE 'REGISTRY' ENTERED AT 14:48:16 ON 25 MAY 2005
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 L3 1047 S L1 FUL
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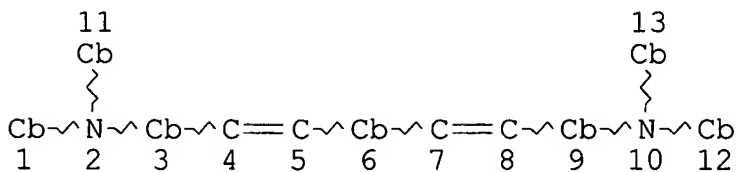
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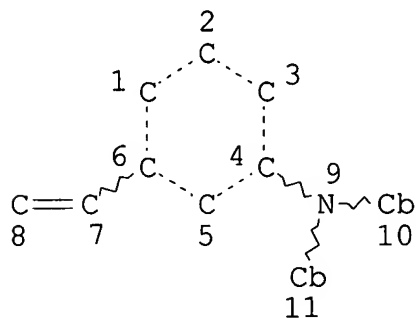


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STEREO ATTRIBUTES: NONE
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 48 ITERATIONS
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35 ANSWERS

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L8 ANSWER 1 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:253750 ZCAPLUS
DN 142:325662
ED Entered STN: 24 Mar 2005
TI Ethynylsilane copolymers useful as hole-transporting materials for
organic electroluminescent devices
IN Oshita, Joji; Kunai, Atsuaki
PA Tokuyama Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08G077-60
ICS C08G061-12; H05B033-14; H05B033-22
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
Properties)
Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005075935	A2	20050324	JP 2003-308411	20030901

PRAI JP 2003-308411 20030901

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2005075935	ICM	C08G077-60
	ICS	C08G061-12; H05B033-14; H05B033-22
JP 2005075935	FTERM	3K007/AB01; 3K007/AB14; 3K007/CB04; 3K007/DB03; 4J032/CA61; 4J032/CB08; 4J032/CD01; 4J032/CD08; 4J032/CG03; 4J246/AA05; 4J246/AA06; 4J246/AA07; 4J246/AB02; 4J246/BB15X; 4J246/BB150; 4J246/BB151; 4J246/BB16X; 4J246/BB160; 4J246/BB161; 4J246/BB20X; 4J246/BB200; 4J246/BB201; 4J246/BB32X; 4J246/BB320; 4J246/BB321; 4J246/BB340; 4J246/BB45X; 4J246/BB450; 4J246/BB451; 4J246/CA230; 4J246/CA26X; 4J246/CA390; 4J246/CA40X; 4J246/CA420; 4J246/CA440; 4J246/CA450;

4J246/CA530; 4J246/CA760; 4J246/CA770;
 4J246/CA780; 4J246/CA800; 4J246/FA021;
 4J246/FA151; 4J246/FA171; 4J246/FA431;
 4J246/FA451; 4J246/FB213; 4J246/FB302;
 4J246/FC131; 4J246/FC213; 4J246/FE04; 4J246/GA01;
 4J246/GA02; 4J246/GC12; 4J246/GC21; 4J246/GD08;
 4J246/HA16

- AB The copolymers, showing Mw 500-100,000, have repeating units (A) C.tplbond.CAr1 and (B) C.tplbond.C(SiR1R2)nC.tplbond.CAr2 [R1, R2 = (substituted) alkyl, aryl, heteroaryl; Ar1, Ar2 = (substituted) C10-100 arylene, N-contg. heterocyclic C3-100 .pi.-excessive heteroarylene, N-free heterocyclic C8-100 .pi.-excessive heteroarylene, specific styrylene, specific phenylenevinylene, etc.; n = 1-10], satisfying no. of unit ratio B/A 0.01-500. The ethynylsilane copolymer hole-transporting materials show good heat resistance.
- ST ethynylsilane polymer hole transport org electroluminescent device; heat resistance dibutyldiethynylsilane dibromonaphthalene polymer
- IT Polycarbosilanes
 (Polyacetylene-polyamine-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Luminescent substances
 (electroluminescent; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Hole transport
 (ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Electroluminescent devices
 (org.; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Polycarbosilanes
 (polyacetylene-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Polyamines
 (polyacetylene-polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices).
- IT Polyacetylenes, uses
 (polyamine-polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT Polyacetylenes, uses
 (polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)
- IT 637356-40-2P 637356-41-3P 637356-42-4P 637356-43-5P
 848150-97-0P 848150-98-1P 848151-01-9P 848151-02-0P
848151-04-2P
 (ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT 848151-04-2P

(ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

RN 848151-04-2 ZCAPLUS

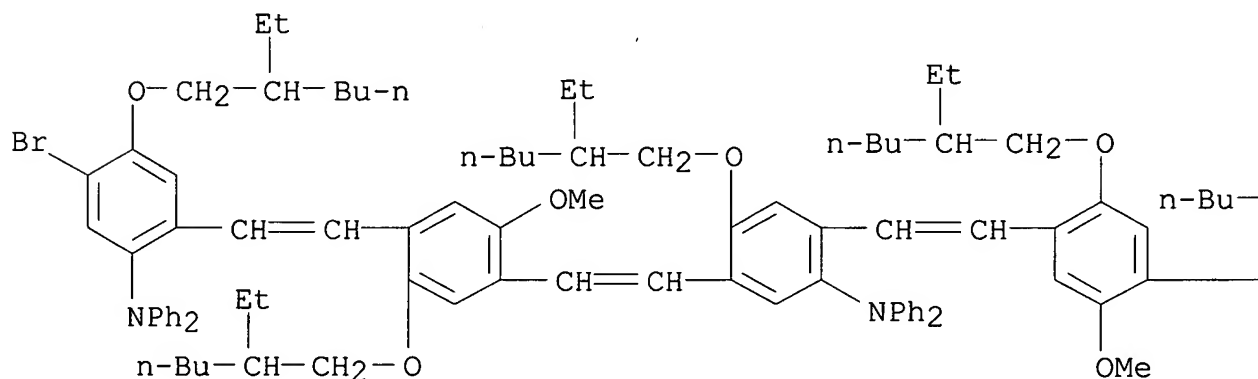
CN Benzenamine, 5-[2-[4-[2-[4-bromo-2-(diphenylamino)-5-[(2-ethylhexyl)oxy]phenyl]ethenyl]-5-[(2-ethylhexyl)oxy]-2-methoxyphenyl]ethenyl]-2-[2-[4-[2-[4-[2-[4-(2-bromoethenyl)-2-[(2-ethylhexyl)oxy]-5-methoxyphenyl]ethenyl]-5-(diphenylamino)-2-[(2-ethylhexyl)oxy]phenyl]ethenyl]-2-[(2-ethylhexyl)oxy]-5-methoxyphenyl]ethenyl]-4-[(2-ethylhexyl)oxy]-N,N-diphenyl-, polymer with diethynyldiphenylsilane (9CI) (CA INDEX NAME)

CM 1

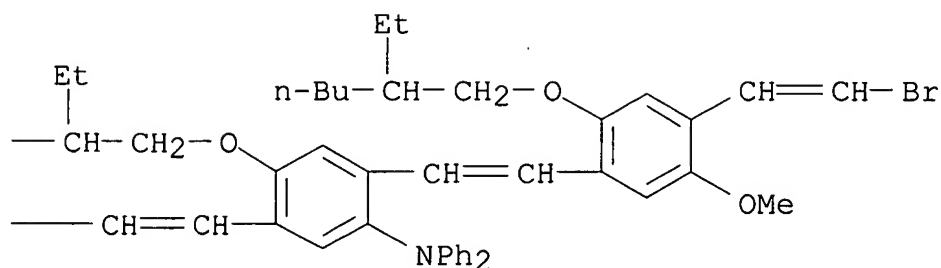
CRN 848151-03-1

CMF C135 H165 Br2 N3 O9

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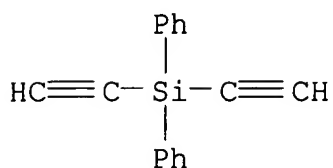
PAGE 1-B



CM 2

CRN 1675-57-6

CMF C16 H12 Si



L8 ANSWER 2 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:254973 ZCAPLUS
 DN 134:282135
 ED Entered STN: 11 Apr 2001
 TI Stilbenes having good compatibility with binder resins and charge transporting capabilities, production method thereof, and electrophotographic photoreceptors therewith
 IN Inagaki, Yoshio; Watanabe, Yukimasa
 PA Kyocera Mita Industrial Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C09B023-00
 ICS C07C209-78; C07C211-54; G03G005-06
 CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 25, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001098176	A2	20010410	JP 1999-277048	19990929
	JP 3568431	B2	20040922		
	US 6338927	B1	20020115	US 2000-648078	20000825
PRAI	JP 1999-277048	A	19990929		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001098176	ICM	C09B023-00

US 6338927 ICS C07C209-78; C07C211-54; G03G005-06
 NCL 430/073.000; 430/083.000; 564/434.000
 ECLA G03G005/06B5B; G03G005/06H2D

OS MARPAT 134:282135

AB Title stilbenes have triphenylamino groups on the both sides of the center benzene ring, where the triphenylamino groups are asym. with each other. Thus, a compn. contg. phthalocyanine (CG 1) 5, polycarbonate 100, and THF 800 parts and a stilbene deriv. obtained by reaction of 4-phosphate diethyltryphenylamine (sic) and 2-ethyl-6-methyl-4'-(4-formylstyryl)triphenylamine were mixed, applied on an Al element tube, and dried to give a single layer type photoreceptor.

ST stilbene contg triphenylamino group prepn; electrophotog photoreceptor charge transporting agent stilbene

IT Polycarbonates, uses
 (binders in photoreceptors; prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT Electrophotographic photoconductors (photoreceptors)
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 574-93-6, Phthalocyanine
 (charge generator in photoreceptor; prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 332411-36-6P 332411-38-8P 332411-40-2P **332411-42-4P**
 332411-43-5P
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

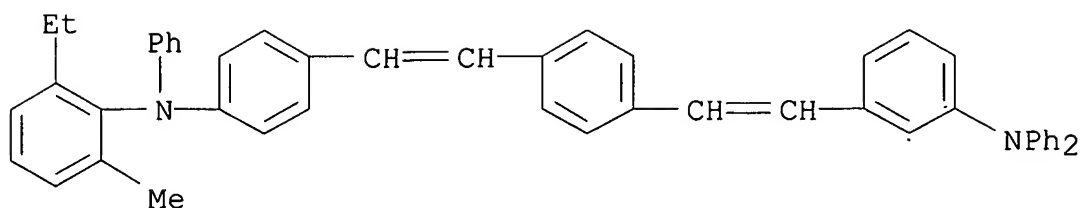
IT 4181-05-9P, 4-Formyltriphenylamine 25069-40-3P,
 4-Hydroxymethyltriphenylamine 42906-19-4P 126150-12-7P
 138627-45-9P 155079-25-7P 160064-57-3P 253313-04-1P,
 3-Formyltriphenylamine 256660-20-5P 332411-18-4P 332411-23-1P
 332411-25-3P 332411-27-5P 332411-33-3P
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 101-02-0, Triphenyl phosphite 603-34-9, Triphenylamine
 7647-01-0, Hydrochloric acid, reactions 13511-11-0 20440-95-3
 97802-65-8 256660-16-9 332411-20-8
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT **332411-42-4P**
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

RN 332411-42-4 ZCAPLUS

CN Benzenamine, 3-[2-[4-[2-[4-[(2-ethyl-6-methylphenyl)phenylamino]phenyl]ethenyl]phenyl]ethenyl]-N,N-diphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:544812 ZCAPLUS
 DN 133:170214
 ED Entered STN: 09 Aug 2000
 TI Stilbene derivative and electrophotographic photoreceptor using same
 IN Watanabe, Yukimasa; Kawaguchi, Hirofumi
 PA Kyocera Mita Industrial Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 57 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C07C211-54
 ICS G03G005-06
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 25

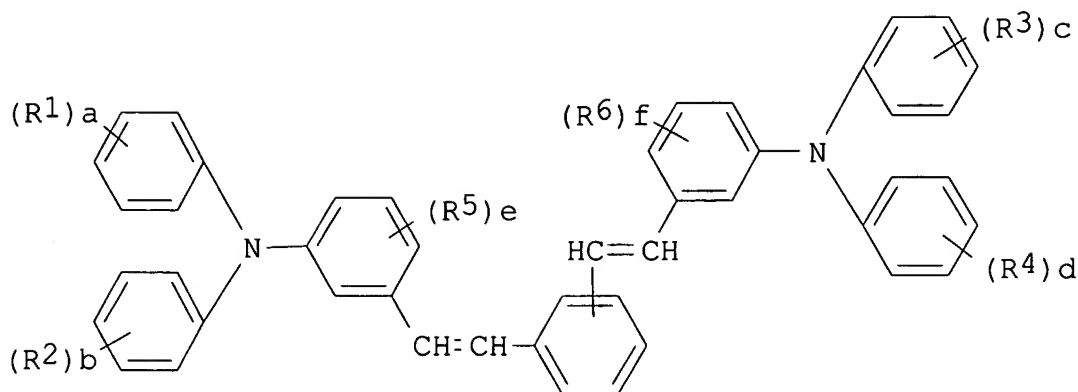
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000219660	A2	20000808	JP 1999-23261	19990129
JP 3619696	B2	20050209		
PRAI JP 1999-23261		19990129		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000219660	ICM	C07C211-54
	ICS	G03G005-06

OS MARPAT 133:170214
 GI



I

AB The title stilbene deriv. has the general formula I [R1-6 = alkyl, aryl, aralkyl, alkoxy (these groups may be substituted and R1-6 are the same or different); a, b, c, d, e, f = 0-5, when a, b, c, d, e, f .gtoreq.2, each of the plural R1-6 groups may be different]. The photoreceptor comprises a conductive substrate coated with a photosensitive layer contg. the compd. The compd. shows good compatibility with binders and is useful as a charge-transporting agent and the photoreceptor shows improved photosensitivity.

ST electrophotog photoreceptor stilbene pos hole transporting agent

IT Electrophotographic photoconductors (photoreceptors)
(electrophotog. photoreceptor using stilbene deriv. as pos. hole-transporting agent)

IT **163487-35-2P 287936-62-3P 287936-63-4P**
287936-64-5P 287936-65-6P 287936-66-7P
287936-67-8P 287936-68-9P 287936-69-0P
287936-70-3P 287936-71-4P 287936-72-5P
287936-73-6P 287936-74-7P 287936-75-8P
287936-76-9P 287936-77-0P 287936-78-1P
287936-79-2P 287936-80-5P 287936-81-6P
287936-82-7P 287936-83-8P 287936-84-9P
287936-85-0P 287936-86-1P 287936-87-2P
287936-88-3P 287936-89-4P 287936-90-7P
287936-91-8P

(electrophotog. photoreceptor using stilbene deriv. as pos. hole-transporting agent)

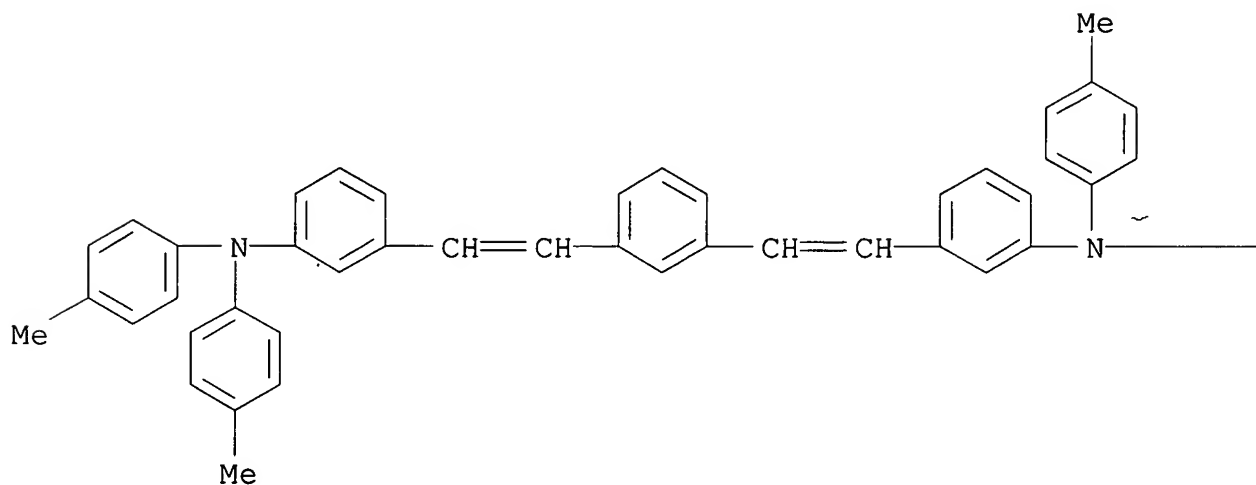
IT 253313-04-1P, 3-Formyltriphenylamine 287937-01-3P 287937-02-4P
287937-03-5P 287937-04-6P 287937-05-7P 287937-06-8P
287937-07-9P 287937-08-0P 287937-09-1P 287937-10-4P

(prepn. and reaction with biphosphate)

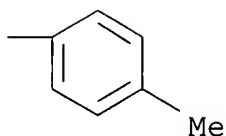
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287936-96-3P 287936-97-4P 287936-98-5P 287936-99-6P
287937-00-2P

(prepn. and redn. to form formyl triphenylamine compd.)
 IT 78-40-0, Triethyl phosphate 612-12-4 623-25-6 626-16-4
 (prepn. of biphosphate)
 IT 591-50-4, Iodobenzene 608-28-6, 2-Iodo-m-xylene 615-37-2,
 2-Iodotoluene 624-31-7, 4-Iodotoluene 625-95-6, 3-Iodotoluene
 2237-30-1, 3-Aminobenzonitrile 4214-28-2, 4-Iodo-m-xylene
 17356-09-1, 1-Iodo-4-isopropylbenzene 18282-40-1,
 1-Ethyl-2-iodobenzene 25309-64-2 31599-60-7, 3-Iodo-o-xylene
 (prepn. of triphenylamine deriv.)
 IT 1191-15-7, Diisobutylaluminum hydride
 (redn. of cyanotriphenylamine)
 IT 163487-35-2P 287936-62-3P 287936-63-4P
 287936-64-5P 287936-65-6P 287936-66-7P
 287936-67-8P 287936-68-9P 287936-69-0P
 287936-70-3P 287936-71-4P 287936-72-5P
 287936-73-6P 287936-74-7P 287936-75-8P
 287936-76-9P 287936-77-0P 287936-78-1P
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 287936-82-7P 287936-83-8P 287936-84-9P
 287936-85-0P 287936-86-1P 287936-87-2P
 287936-88-3P 287936-89-4P 287936-90-7P
 287936-91-8P
 (electrophotog. photoreceptor using stilbene deriv. as pos.
 hole-transporting agent)
 RN 163487-35-2 ZCAPLUS
 CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-
 methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

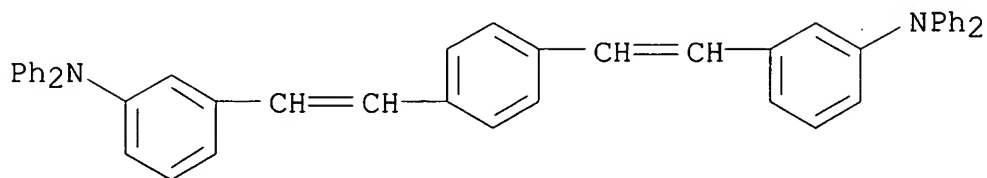


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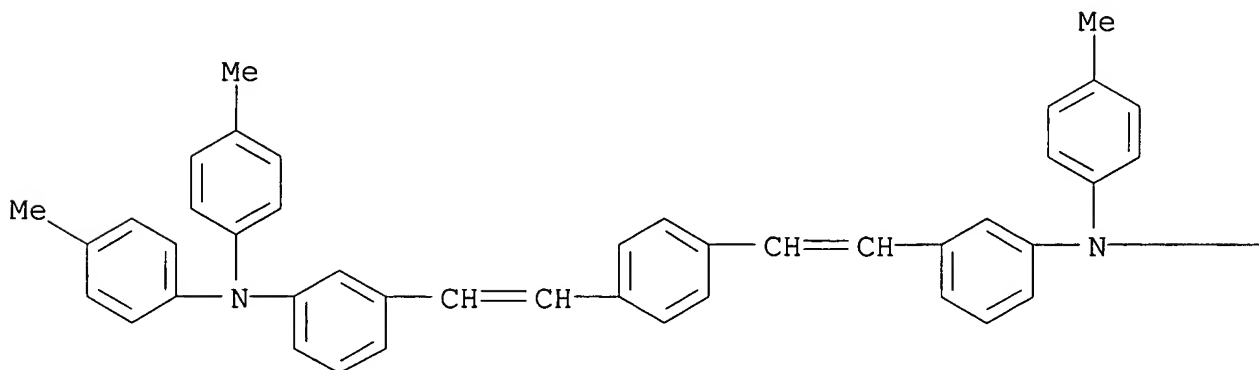
RN 287936-62-3 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-diphenyl-
(9CI) (CA INDEX NAME)



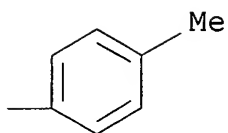
RN 287936-63-4 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-
methylphenyl)- (9CI) (CA INDEX NAME)



PAGE 1-A

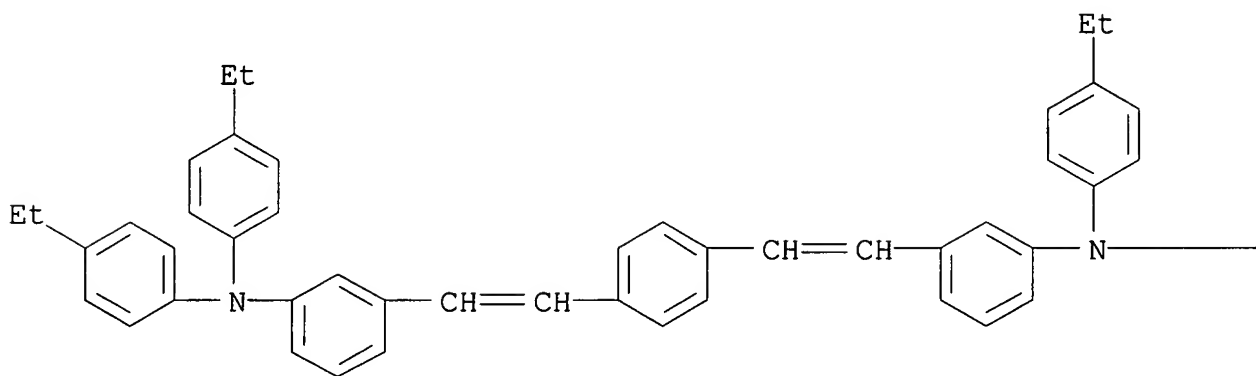
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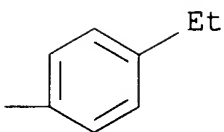
RN 287936-64-5 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-ethylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



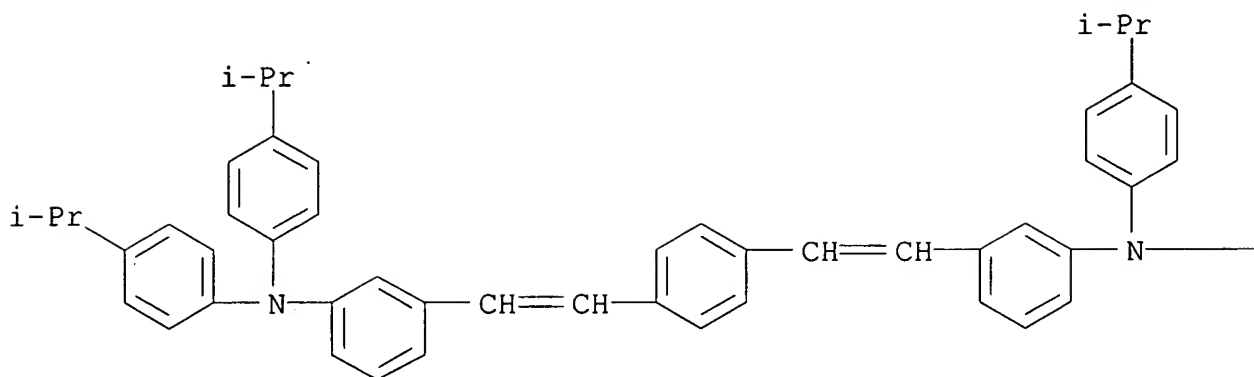
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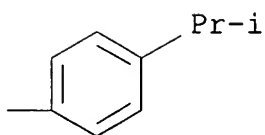
RN 287936-65-6 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

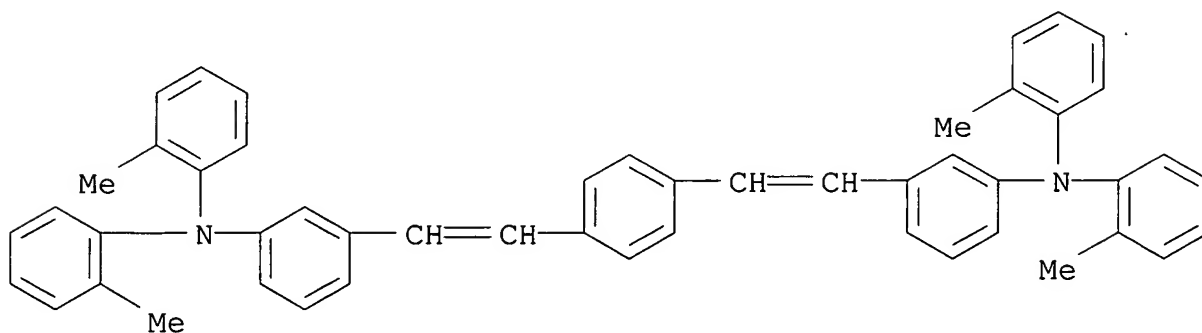


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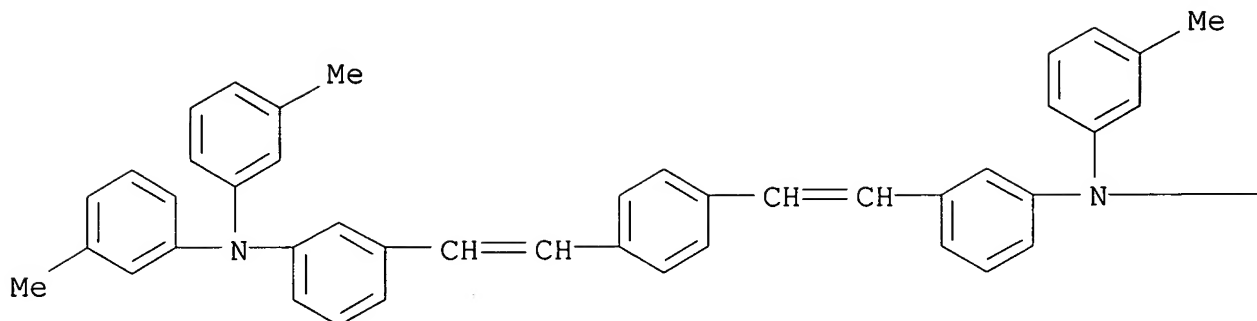
CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)



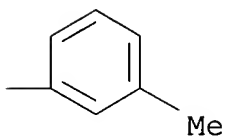
RN 287936-67-8 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

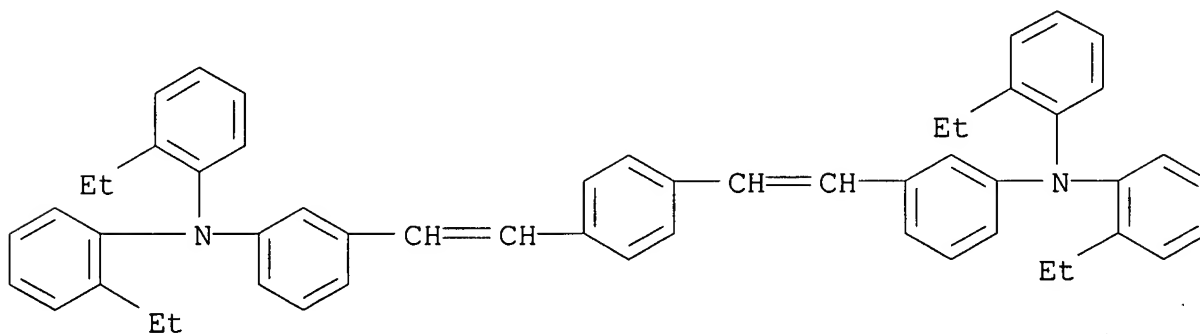


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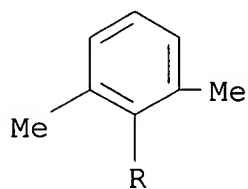
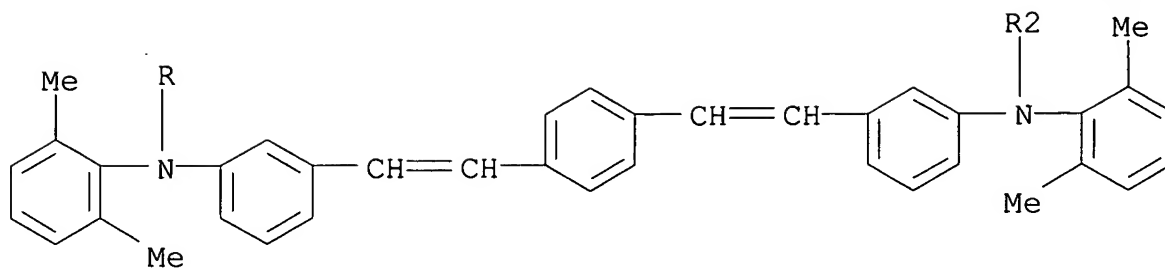
CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-ethylphenyl)- (9CI) (CA INDEX NAME)



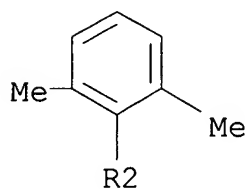
RN 287936-69-0 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

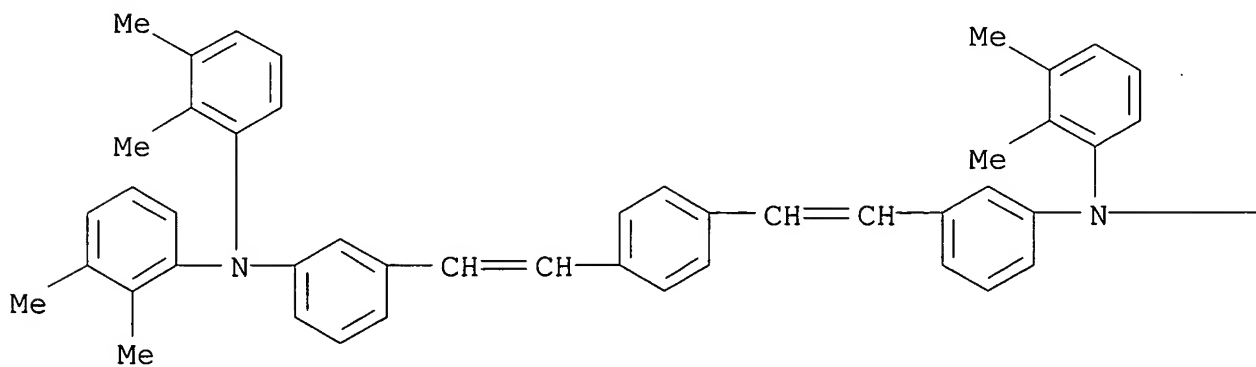


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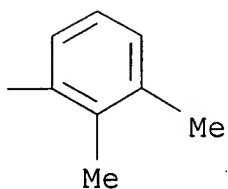


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PAGE 1-A

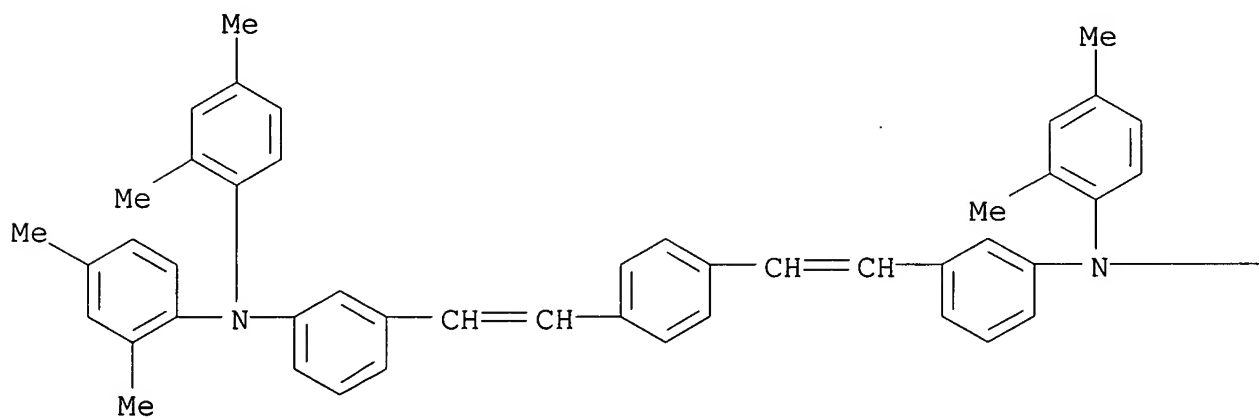


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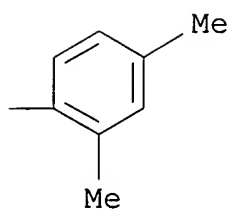


RN 287936-71-4 ZCAPLUS
 CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)- (9CI) (CA INDEX NAME)

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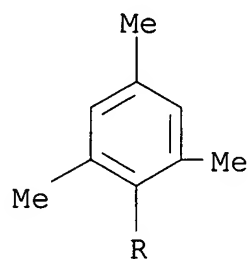
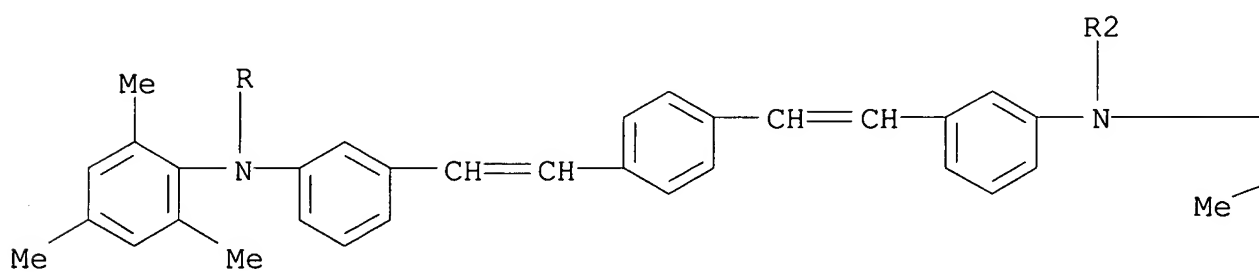
PAGE 1-B



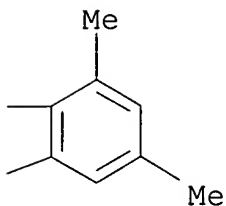
RN 287936-72-5 ZCAPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

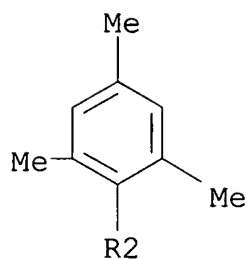
PAGE 1-A



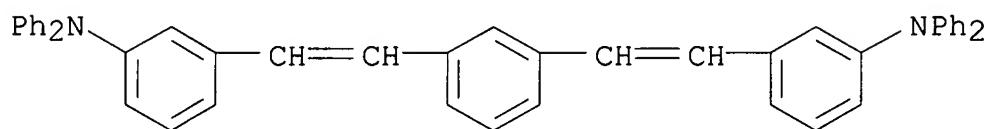
PAGE 1-B



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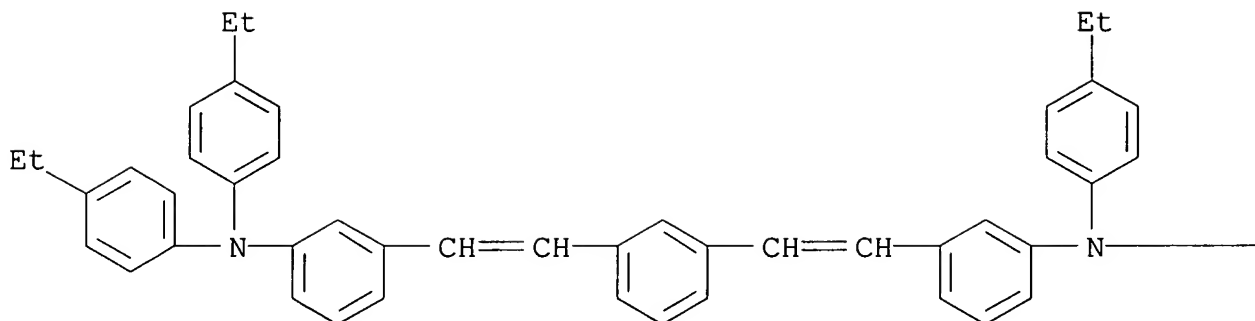


RN 287936-73-6 ZCAPLUS
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 (9CI) (CA INDEX NAME)

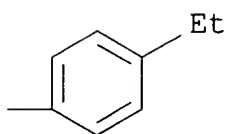


RN 287936-74-7 ZCAPLUS
 CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-
 ethylphenyl)- (9CI) (CA INDEX NAME)

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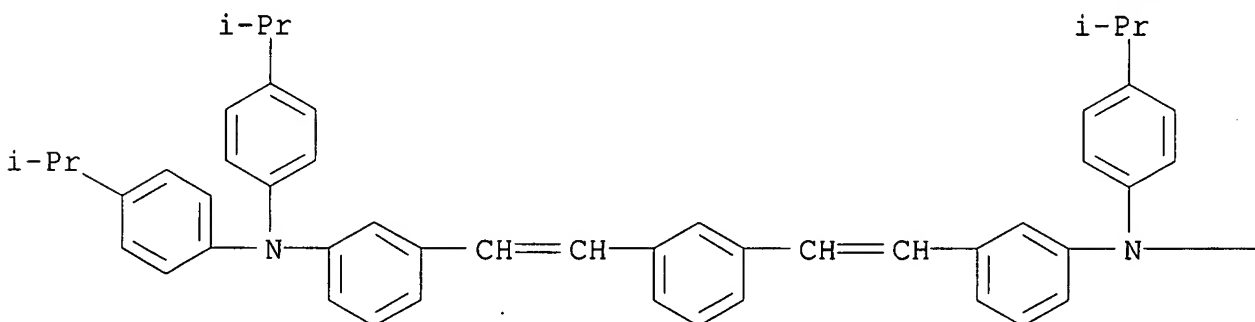
PAGE 1-B



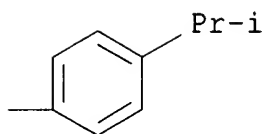
RN 287936-75-8 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

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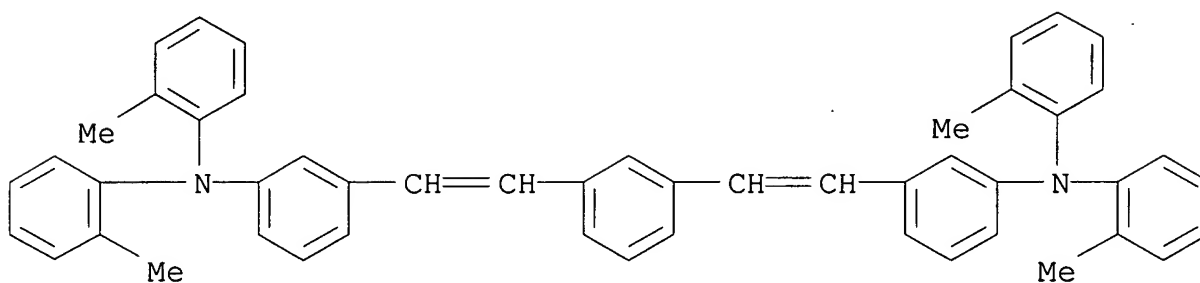


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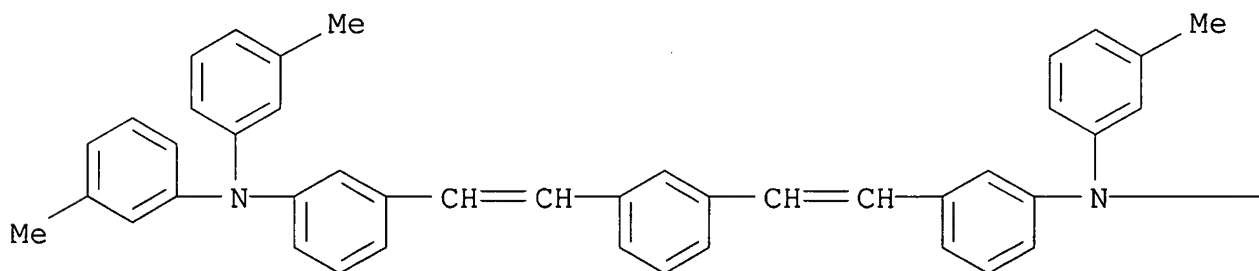
RN 287936-76-9 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)



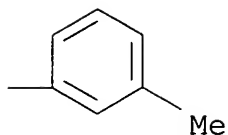
RN 287936-77-0 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)



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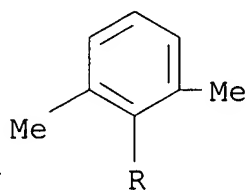
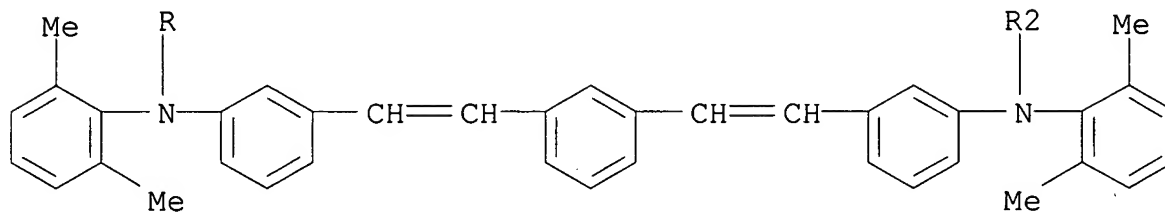
PAGE 1-B



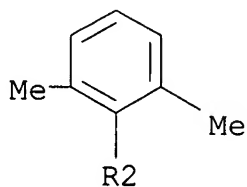
RN 287936-78-1 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)

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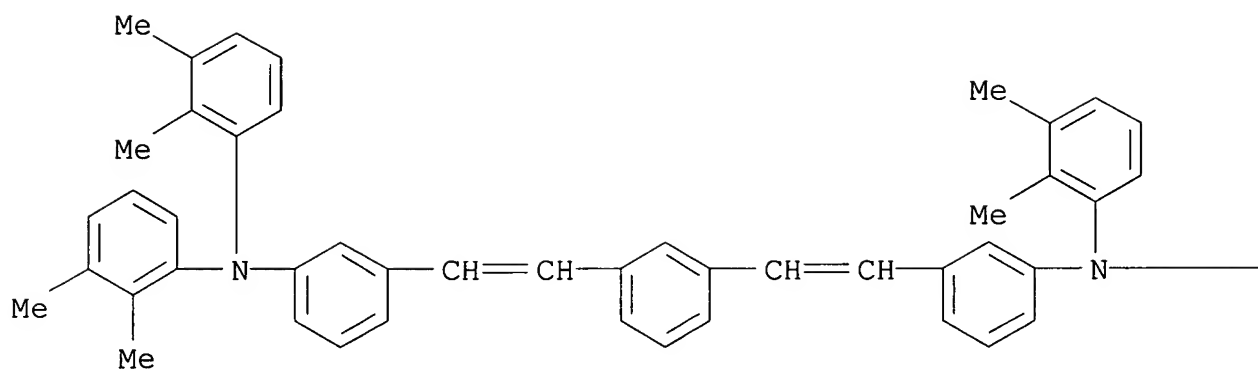
PAGE 2-A



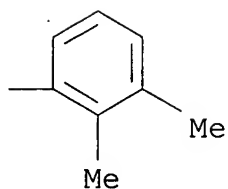
RN 287936-79-2 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,3-dimethylphenyl)- (9CI) (CA INDEX NAME)

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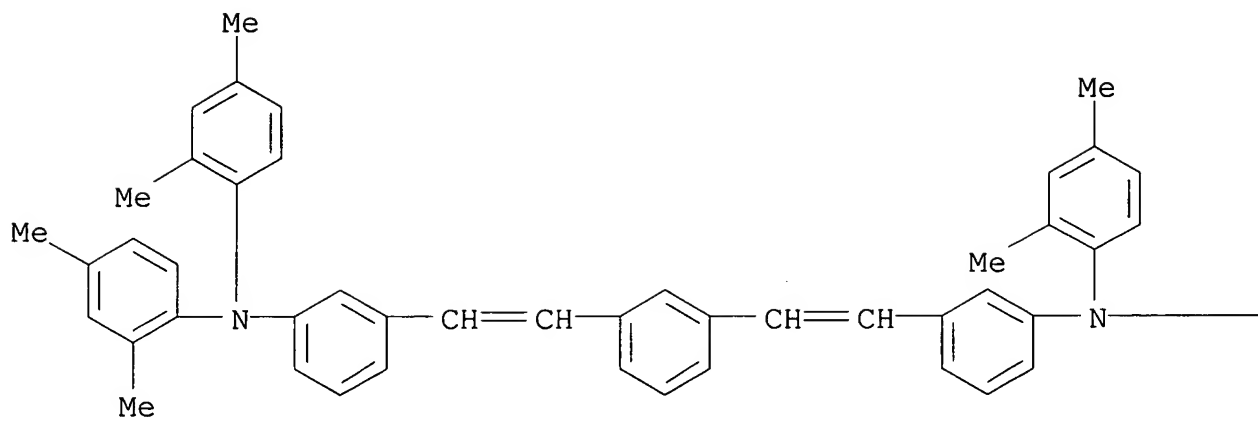


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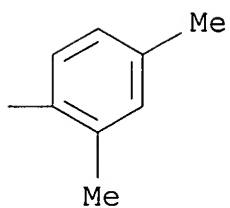


RN 287936-80-5 ZCAPLUS
 CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)- (9CI) (CA INDEX NAME)]

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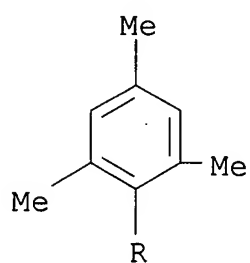
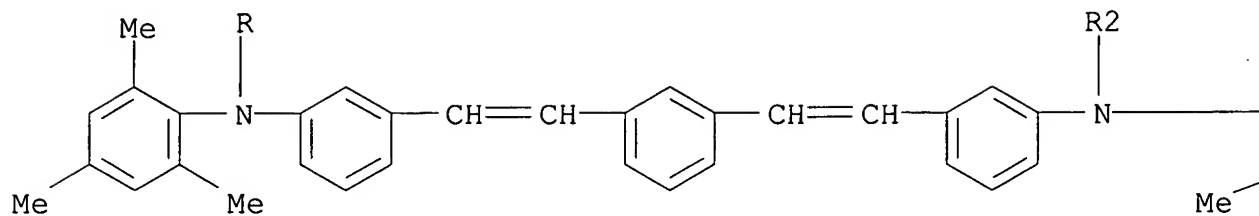


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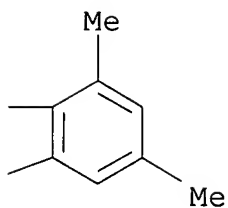


RN 287936-81-6 ZCAPLUS
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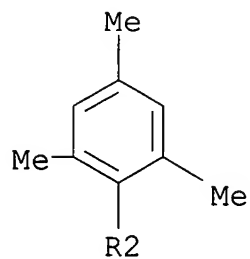
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PAGE 1-B

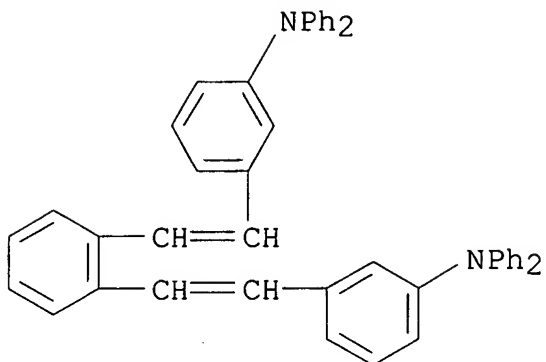


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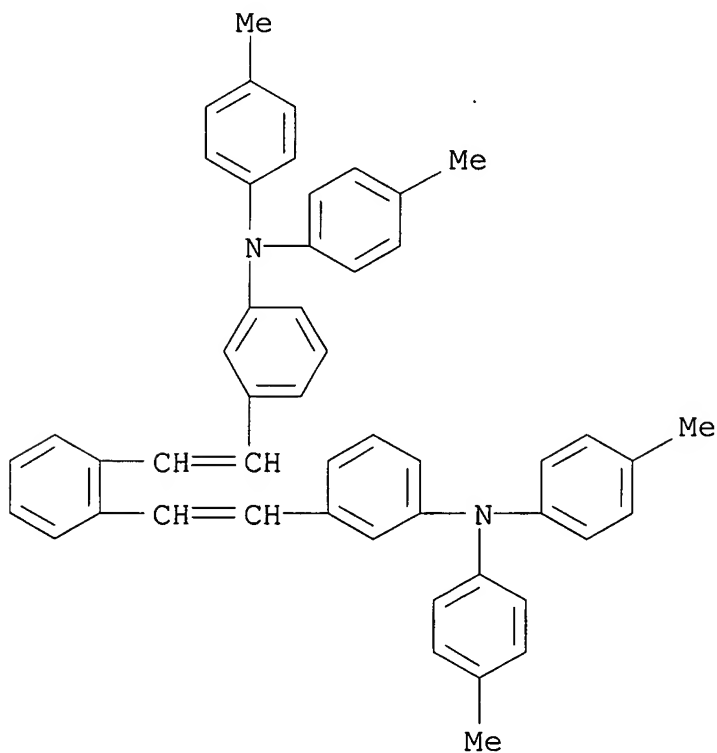
RN 287936-82-7 ZCAPLUS
 CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-diphenyl-

(9CI) (CA INDEX NAME)



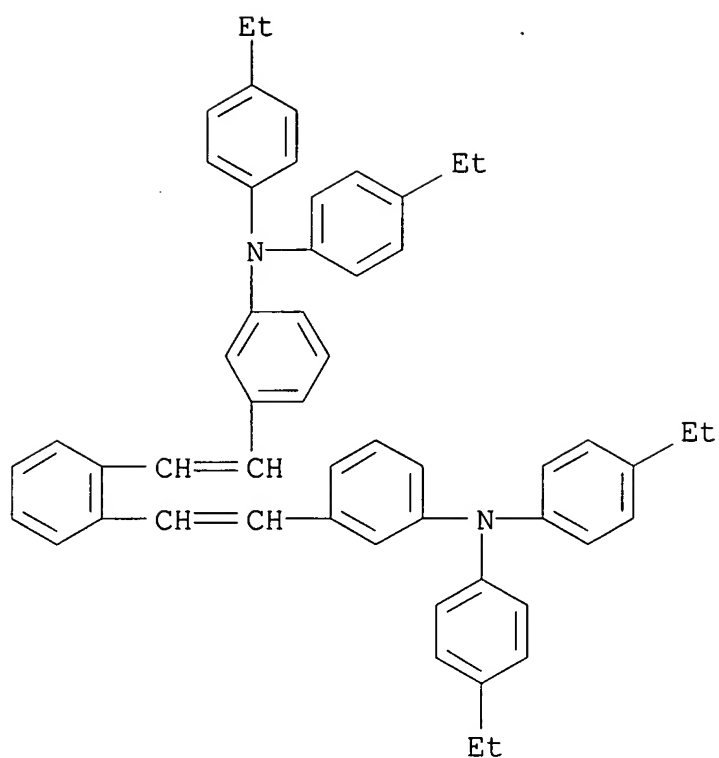
RN 287936-83-8 ZCAPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



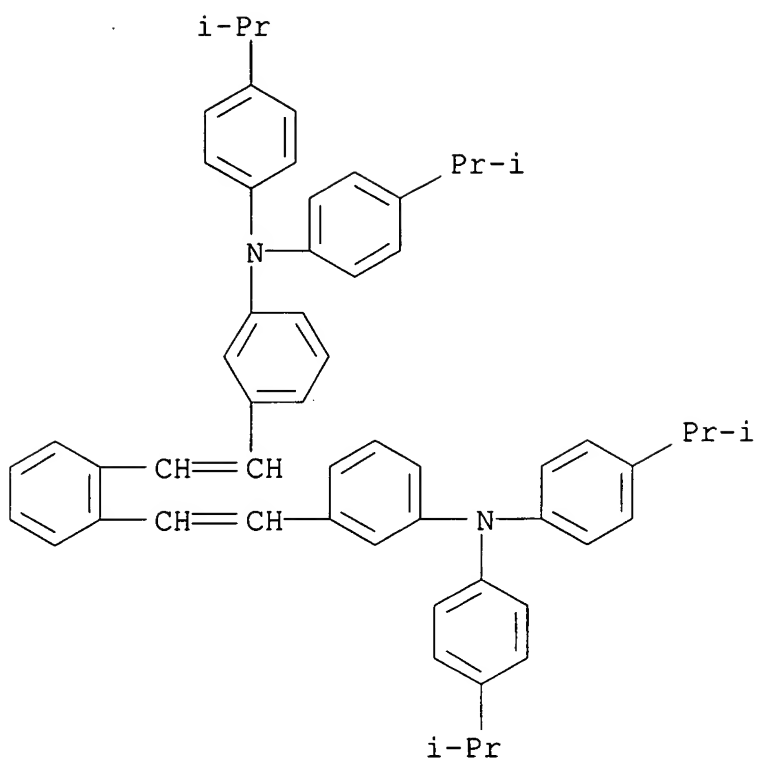
RN 287936-84-9 ZCAPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-ethylphenyl)- (9CI) (CA INDEX NAME)



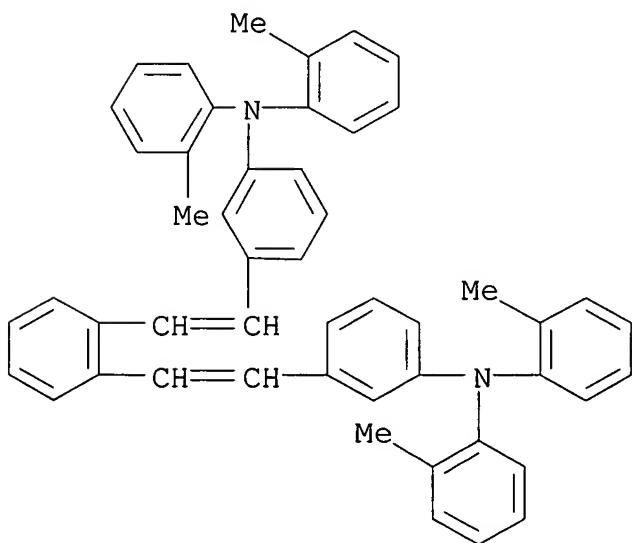
RN 287936-85-0 ZCAPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



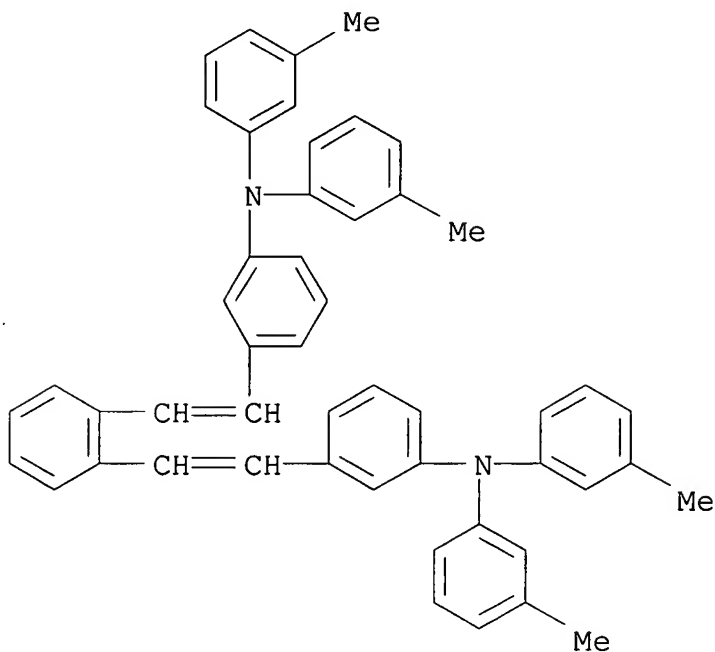
RN 287936-86-1 ZCAPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)



RN 287936-87-2 ZCAPLUS

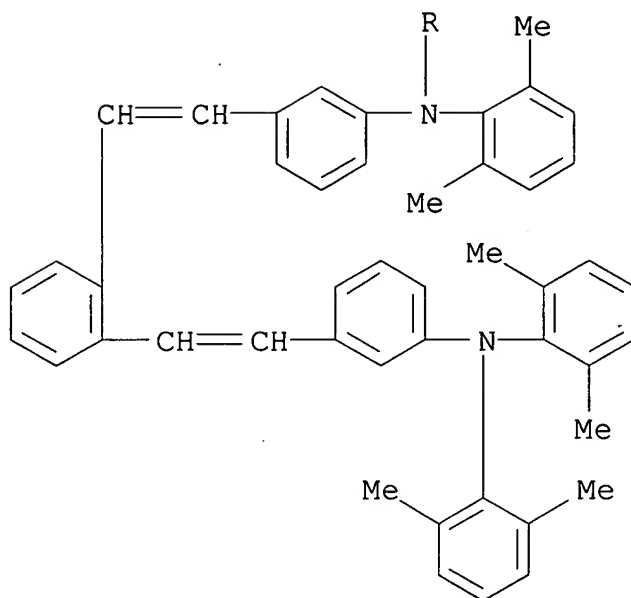
CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)



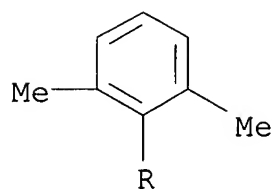
RN 287936-88-3 ZCAPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)

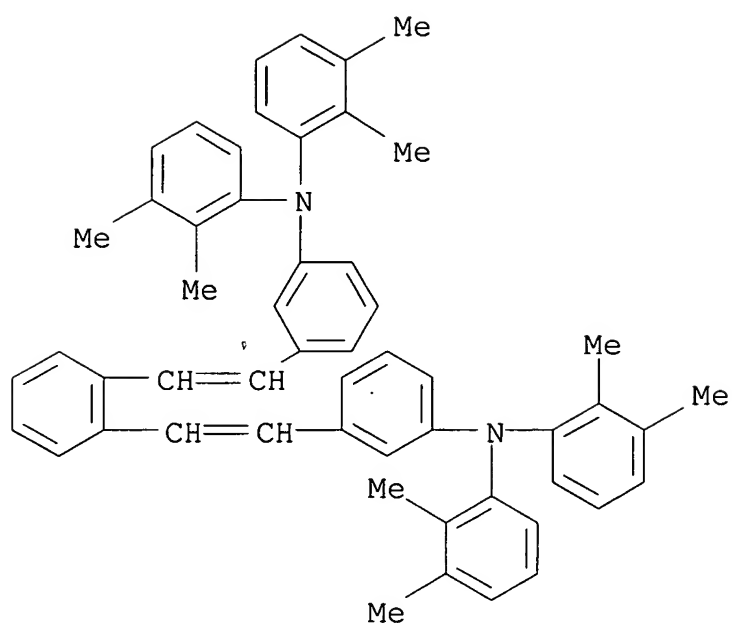
PAGE 1-A



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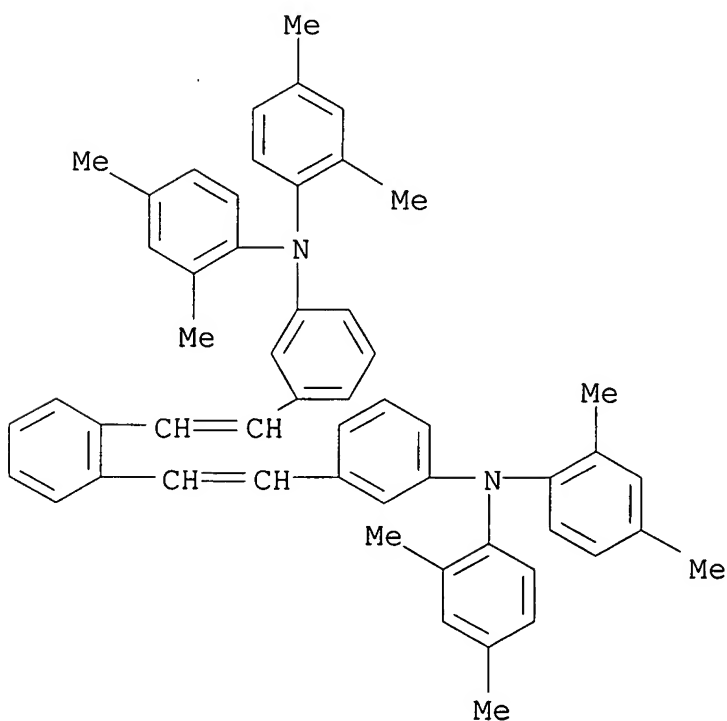


RN 287936-89-4 ZCAPLUS
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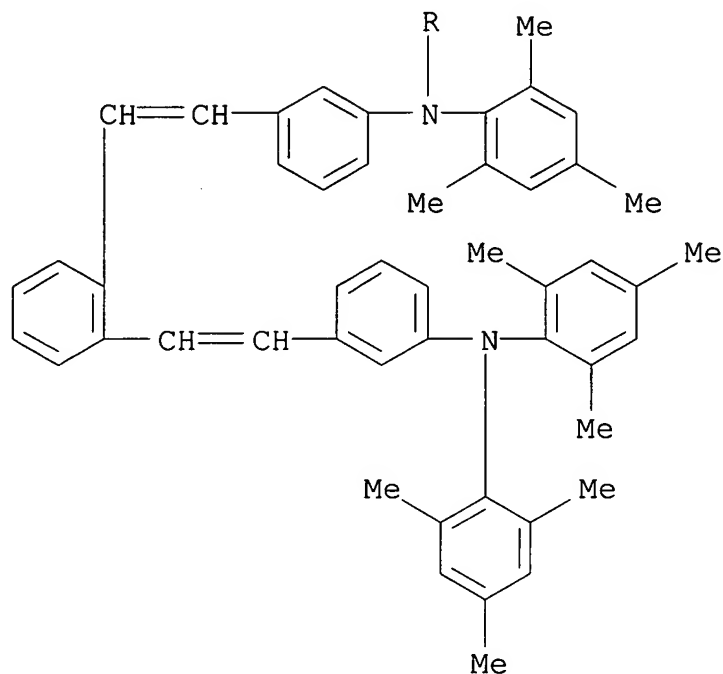
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CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)- (9CI) (CA INDEX NAME)

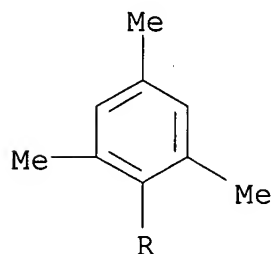


RN 287936-91-8 ZCAPLUS
 CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

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L8 ANSWER 4 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:833218 ZCAPLUS
 DN 123:241441
 ED Entered STN: 05 Oct 1995

TI Organic thin film electroluminescence device
 IN Tomiuchi, Yoshimasa; Kawate, Kenji; Nabeta, Osamu; Yamazaki, Mikio;
 Amano, Masayo; Kuroda, Masami; Kobayashi, Makoto
 PA Fuji Electric Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 23 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09K011-06

ICS H05B033-14

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
 Properties)

Section cross-reference(s): 74

FAN.CNT 1

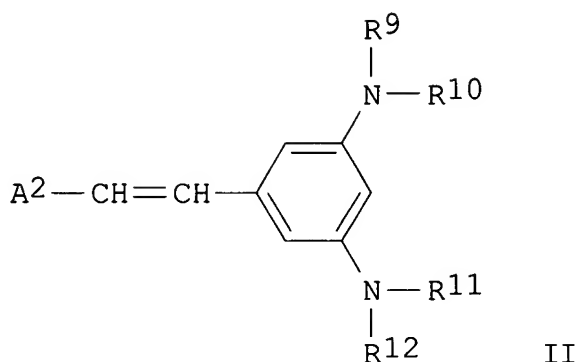
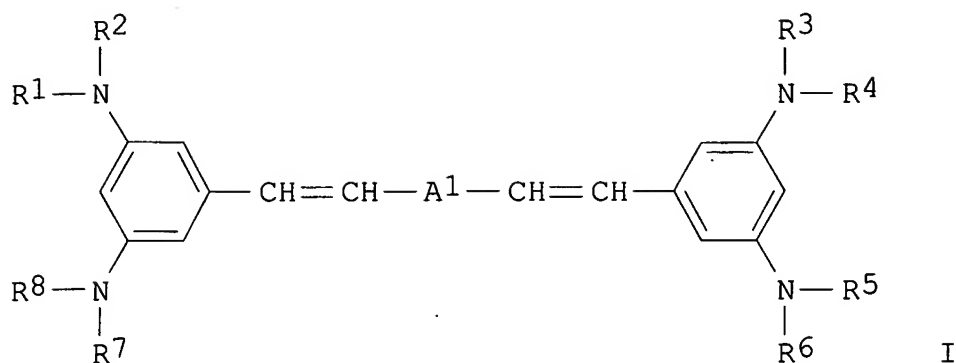
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PI	JP 07188649	A2	19950725	JP 1994-148798	199406 30
PRAI	JP 1994-148798	A	19940630		
	JP 1993-288873		19931118		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 07188649	ICM	C09K011-06
	ICS	H05B033-14

OS MARPAT 123:241441

GI



AB The title device, suited for use as light source in a flat-display panel, comprising a light emitting layer and a charge injection layer interposed between a pair of electrodes, wherein the hole injection layer is made of styryl compds. represented by I [R1-R8 = H, alkyl, (un)substituted aryl; A1 = (un)substituted aryl, arom. heterocyclic group] and II [R9-R12 = H, alkyl, (un)substituted aryl; A2 = (un)substituted aryl, arom. heterocyclic group].

ST org thin film electroluminescence device styryl

IT Electroluminescent devices
(org. thin film electroluminescence device)

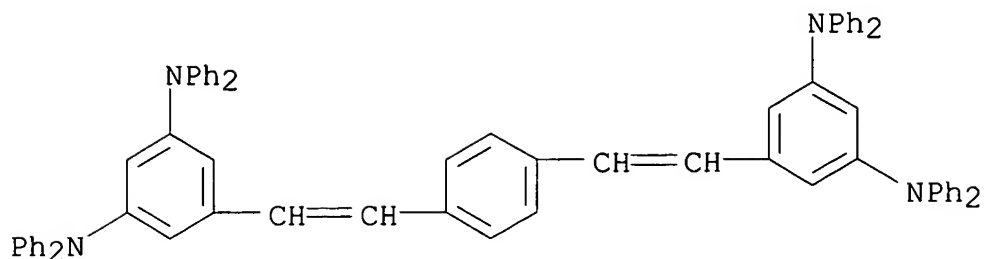
IT 55035-43-3 **163622-09-1** 163622-11-5 163622-14-8
163622-15-9

(org. thin film electroluminescence device)

IT **163622-09-1**
(org. thin film electroluminescence device)

RN 163622-09-1 ZCAPLUS

CN 1,3-Benzenediamine, 5,5'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:582601 ZCAPLUS

DN 123:21519

ED Entered STN: 02 Jun 1995

TI Organic thin-film electroluminescence device

IN Kawate, Kenji; Kuroda, Masami; Nabeta, Osamu

PA Fuji Electric Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09K011-06

ICS H05B033-14

CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

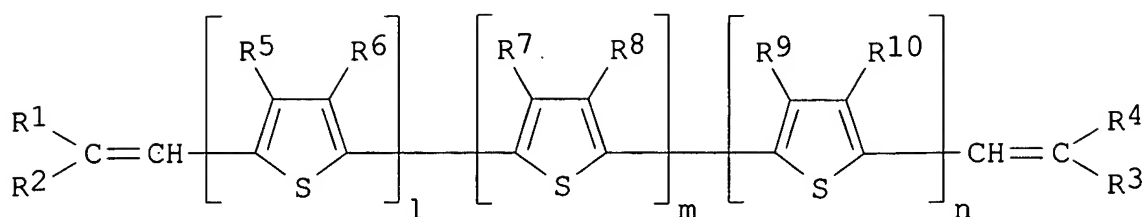
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 07011243	A2	19950113	JP 1993-205464	19930820
PRAI	JP 1993-205464	A	19930820		
	JP 1993-101619		19930428		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 07011243	ICM	C09K011-06
	ICS	H05B033-14

GI



I

AB The title device comprising a light emitting layer composed of quinolinol complexes and/or thiophenes I (R¹, R², R³, R⁴ = H, alkyl, aryl, cyano, heterocyclic; R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰ = H, halo, alkyl, alkoxy, aryl; m = 1 or 2; l, n = 0 or 1; m+l+n = integer 1 or 4), and/or other specified compd.

ST org electroluminescence device thiophenes quinolinol complex

IT Electroluminescent devices
(org. thin-film electroluminescence device)

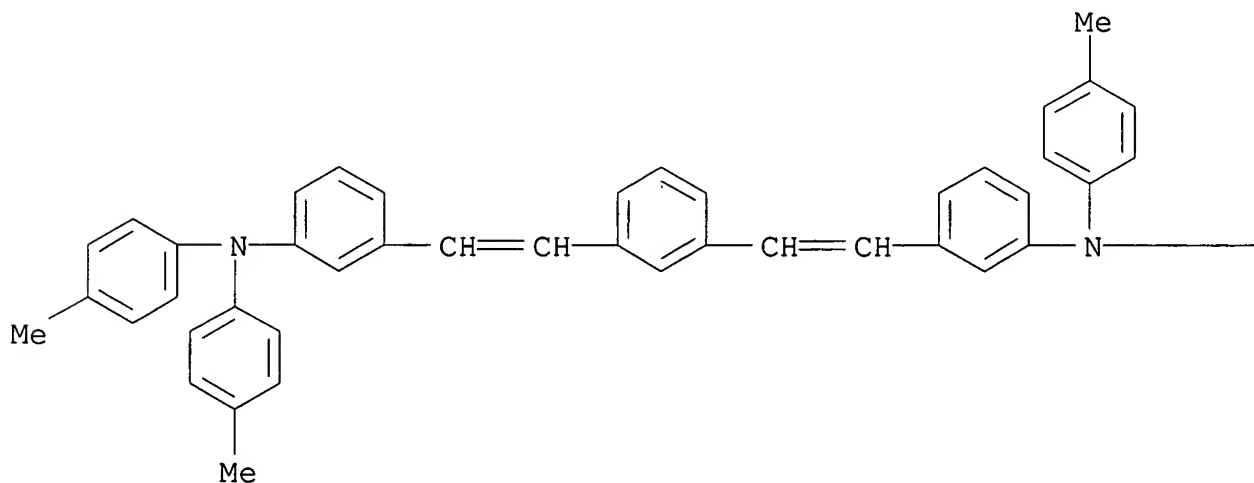
IT 110-02-1, Thiophene 2085-33-8 55035-42-2 58473-78-2
65181-78-4 89114-91-0 143542-32-9 163487-34-1
163487-35-2 163487-36-3 163487-37-4 163802-35-5
(org. thin-film electroluminescence device)

IT **163487-35-2**
(org. thin-film electroluminescence device)

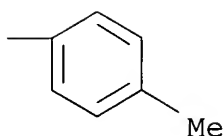
RN 163487-35-2 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)

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L8 ANSWER 6 OF 6 ZCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:529161 ZCAPLUS
 DN 123:22129
 ED Entered STN: 06 May 1995
 TI Electrophotographic photoreceptor containing styryl compound
 charge-transporting agent
 IN Yamazaki, Mikio; Amano, Masayo; Kuroda, Masami; Nabeta, Osamu
 PA Fuji Electric Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03G005-06
 ICS G03G005-06
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 25

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07056367	A2	19950303	JP 1993-206763	19930823

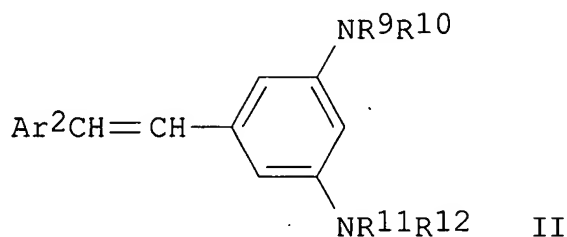
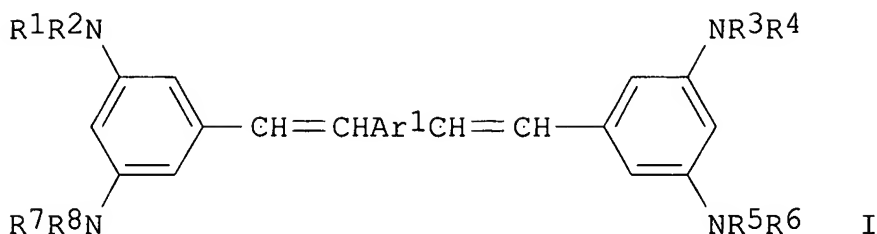
PRAI JP 1993-206763 19930823

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 07056367	ICM	G03G005-06

OS MARPAT 123:22129
GI

ICS G03G005-06



AB The photoreceptor has an elec. conductive support coated with a photosensitive layer contg. .gtoreq.1 styryl compd. I or II [R1-12 = H, alkyl, (substituted) aryl; Ar1-2 = (substituted) aryl, heterocyclic group] as charge-transporting agents. The photoreceptor showed high sensitivity and repeating durability.

ST electrophotog photoreceptor styryl charge transporting

IT Electrophotographic photoconductors and photoreceptors (electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

IT **163622-09-1** 163622-10-4 163622-11-5 163622-12-6
163622-13-7 163622-14-8 163622-15-9
(electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

IT **163622-09-1**
(electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

RN 163622-09-1 ZCAPLUS

CN 1,3-Benzenediamine, 5,5'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

